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☐ 1. Document ID: US 5974974 A

L4: Entry 1 of 5

File: USPT

Nov 2, 1999

DOCUMENT-IDENTIFIER: US 5974974 A

TITLE: Substantially transparent printing blankets and methods for using same

Detailed Description Paragraph Right (23):

The general procedure set forth in Example 2 was repeated except that an acrylate-capped form of the SPL-2 photopolymer was used which would be more compatible with uv acrylate monomers. The "capped" photopolymer was produced by reacting the SPL-2 product with polypropylene glycol monomethacrylate (PPGMA) in the absence of methyldiethanolamine (MDEA). The altered liquid photopolymer had a viscosity of about 400,000 centipoise at 23.degree. C., and was heated to about 60.degree. C. before coating to help the material flow at about 30,000 centipoise into the gap on the coater. This composite was fully cured with UV radiation at 13 mw/cm.sup.2 intensity in about 3.5 minutes. The coating surface was smooth and tack free upon removal of the cover sheet. The product was strippable with adhesion values less than 1 P.I., but required an additional adhesive tie coat to increase the bond strength between the photopolymer and the polyester carrier film to withstand the stresses on press. The product exhibited swell of less than 7%. when exposed to the acrylate monomer 1,6-hexanediol dimethacrylate, and was compatible with the SUNCURE.RTM. brand coating.

Current US Cross Reference Classification (1):

101/376

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☒ 2. Document ID: US 5840386 A

L4: Entry 2 of 5

File: USPT

Nov 24, 1998

DOCUMENT-IDENTIFIER: US 5840386 A

TITLE: Sleeve for a liquid transfer roll and method for producing it

Detailed Description Paragraph Right (9):

The sleeve 40 of FIGS. 3 and 4 may be manufactured by holding the tubes 26 and 29, in a fixture (not illustrated), in concentric relationship to each other and by filling the annular space defined by tubes 26 and 29 with a suitable elastomer material, e.g. silicone, to form intermediate layer 41. This filling may be effected by pouring, injection or evacuation of the selected material. Then the elastomer is cured, preferably by ultraviolet radiation. Subsequently the assembly is mounted on a mandrel and the outer surface thereof is machined, and optionally thermally coated, laser-engraved and again machined as explained in more detail above to obtain the finished sleeve.

Current US Cross Reference Classification (1):

101/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC

☒ 3. Document ID: US 5700343 A

L4: Entry 3 of 5

File: USPT

Dec 23, 1997

DOCUMENT-IDENTIFIER: US 5700343 A

TITLE: Preparation of cylindrical blanket by spreading of compressible layer

Brief Summary Paragraph Right (18):

The portion of the compressible layer or of the surface layer that is applied during a single rotation of the laminate may be at least partially cured with infrared radiation during that rotation. In this embodiment, the at least partially cured portion should be cooled before additional elastomeric material is applied thereon; i.e., when the rotation of the sleeve returns the at least partially cured portion to the coating head. Preferably, each portion of applied coating material is cured before additional material is applied.

Current US Cross Reference Classification (1):

101/376

Current US Cross Reference Classification (5):

428/909

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC

☒ 4. Document ID: US 4582777 A

L4: Entry 4 of 5

File: USPT

Apr 15, 1986

DOCUMENT-IDENTIFIER: US 4582777 A

TITLE: Compressible printing plate

Detailed Description Paragraph Right (7):

It is believed to be within the ability of one skilled in the art to select a liquid radiation curable composition suitable for use in the present invention. Preferred photopolymer compositions include compositions such as those disclosed in U.S. Pat. No. 4,120,721 to Ketley et al, i.e. compositions comprising an acrylic or methacrylic terminated urethane containing polyene, a non-water soluble vinyl monomer solvent, a polythiol containing at least two thiol groups per molecule and a photoinitiator.

Current US Cross Reference Classification (1):

101/376

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC

☐ 5. Document ID: US 4093487 A

L4: Entry 5 of 5

File: USPT

Jun 6, 1978

DOCUMENT-IDENTIFIER: US 4093487 A

TITLE: Method of continuously making a printing blanket construction

Detailed Description Paragraph Right (23):

The polymeric layer 15C may also be a resin sold under the trade designation Uvithane 782 by Thiokol Corp., Box 1296, Trenton, N.J. 08607. This resin is preferably cured by radiation immediately after its application,--either as an exposed face layer or a sandwiched layer. An industrial 60 inches wide curing unit is available for radiation curing using an "electron beam" device and is sold by Energy Sciences Inc., Burlington Rd., Bedford, Mass. 01730, under the trade designation Electrocurtain.

Current US Cross Reference Classification (1):
101/375

Current US Cross Reference Classification (4):
428/909

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☒ 1. Document ID: US 5352507 A

Entry 1 of 2

File: USPT

Oct 4, 1994

DOCUMENT-IDENTIFIER: US 5352507 A

TITLE: Seamless multilayer printing blanket

Detailed Description Paragraph Right (10):

Exemplary reinforced elastomer layers of the invention include polymeric materials which are considered curable or vulcanizable, i.e. they can be hardened or cured by the application of heat, radiation, curing agents, or other known means. Examples of such materials include natural rubbers, fluoroelastomers, SBRs (styrene butadiene rubber), EPDM (ethylene-propylene non-conjugated diene terpolymers), butyl rubbers, neoprenes, nitrile rubbers such as NBRs (nitrile butadiene rubber), polyurethanes, epichlorohydrins, chloroprenes, etc., or a mixture of the foregoing. Nitrile rubber is preferred.

Current US Cross Reference Classification (3):

428/909

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC

☒ 2. Document ID: US 4381961 A

Entry 2 of 2

File: USPT

May 3, 1983

DOCUMENT-IDENTIFIER: US 4381961 A

TITLE: Printing cylinder with an outside covering and a method and apparatus for applying a covering on a cylinder surface

Brief Summary Paragraph Right (12):

It is another object of the present invention to provide a method for covering a printing cylinder surface with a thermoplastic elastomeric composition which can be hardened by exposure to actinic radiation in which method a sheet of the elastomeric composition is wrapped around the cylinder thereby covering the surface completely and fitting closely; subsequently the sheet is attached by application of heat and pressure to the cylinder surface. Specifically, a sheet of elastomeric material is wrapped around a cylinder surface which cylinder has a pattern of cavities or channels in such surface. A vacuum is generated in the cavities or channels between the cylinder surface and the covering, in order to remove accumulated gases, after which the cylinder with the sheet of material on its surface is heated while maintaining the vacuum.

Brief Summary Paragraph Right (14):

It is another object of the present invention to provide an apparatus with which a covering can be applied on a printing cylinder surface which covering comprises a thermoplastic elastomeric composition which can be hardened by exposure to actinic radiation and where a sheet of the elastomeric composition is wrapped round the

printing cylinder surface in a closely fitting manner after which the sheet by application of heat and outside pressure, is attached to the cylinder surface, comprising a printing cylinder surface and means for application of pressure to the sheet of covering material which apparatus according to the invention comprises means to generate a vacuum between the printing cylinder surface and a covering sheet.

Current US Cross Reference Classification (1) :

101/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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l4 and (polyurethane or urethane) and (uv or ultraviolet)	2

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L6	l4 and (polyurethane or urethane) or (uv or ultraviolet)	159020	L6
L5	l4 and (polyurethane or urethane)	2	L5
L4	('4771078' '4767793')[PN]	2	L4
L3	L1 and (compress\$ same (cure or cured or curable or curing) same (uv or ultraviolet))	6	L3
L2	L1 and (compress\$ same (cure or cured or curable or curing))	60	L2
L1	print\$ near2 blanket	1583	L1

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<u>L4</u>	L1 and (cure or curing or curable or cured) near10 (radiation or infrared or uv or ultraviolet or electron) near 10 compress\$	0	<u>L4</u>
<u>L3</u>	L1 and (cure or curing or curable or cured) near10 compress\$	31	<u>L3</u>
<u>L2</u>	L1 and (cure or curing or curable or cured)	127	<u>L2</u>
<u>L1</u>	(101/217 OR 101/375 OR 101/376 OR 428/909).CCLS.	1352	<u>L1</u>

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L Number	Hits	Search Text	DB	Time stamp
1	876	(101/375 or 101/376).ccls.	USPAT	2002/07/11 12:17
2	37	((101/375 or 101/376).ccls.) and (sleeve same continuous)	USPAT	2002/07/11 12:14
3	21	((101/375 or 101/376).ccls.) and (process same continuous)	USPAT	2002/07/11 11:45
4	17	("5245923" "5304267" "5316798" "5323702" "5347927" "5352507" "5429048" "5440981" "5456171" "5553541" "5768990" "5860360" "5893799" "5974973" "6019042" "6148725" "6182568").PN.	USPAT	2002/07/11 11:41
5	8	((101/375 or 101/376).ccls.) and (sleeve or tube) same translat\$	USPAT	2002/07/11 11:46
6	49	((101/375 or 101/376).ccls.) and (sleeve or tube) same continuous\$	USPAT	2002/07/11 12:16
7	207	((101/375 or 101/376).ccls.) and (sleeve or tube)	USPAT	2002/07/11 12:17
8	891	(101/375 or 101/376).ccls.	USPAT; US-PGPUB	2002/07/11 12:17
9	217	((101/375 or 101/376).ccls.) and (sleeve or tube)	USPAT; US-PGPUB	2002/07/11 12:18
10	1	5974973.URPN.	USPAT	2002/07/11 12:21
11	14	("0285576" "3146709" "3367816" "3677856" "3978254" "5131325" "5301610" "5316798" "5324248" "5347927" "5352507" "5379693" "5429048" "5488903").PN.	USPAT	2002/07/11 12:21
14	1	5974973.URPN.	USPAT	2002/07/11 12:26
15	14	("0285576" "3146709" "3367816" "3677856" "3978254" "5131325" "5301610" "5316798" "5324248" "5347927" "5352507" "5379693" "5429048" "5488903").PN.	USPAT	2002/07/11 12:26
18	8	5301610.URPN.	USPAT	2002/07/11 12:26